

IN THE CLAIMS

Please amend the claims as follows:

1-7. (Canceled)

8. (Currently Amended): ~~The fuel cell system of claim 1, further comprising~~ A fuel cell system comprising:

a fuel tank configured to store a fuel at a pressure higher than atmospheric pressure;

a vaporizer configured to vaporize the fuel;

a reformer configured to reform the vaporized fuel into a hydrogen rich gas;

a CO gas removal apparatus configured to remove CO gas in the hydrogen rich gas;

a cell unit configured to generate electricity by allowing the hydrogen rich gas to react with oxygen; and

a pressurized tank connected to an upstream side of the fuel tank.

9. (Original): The fuel cell system of claim 8, wherein the fuel tank includes a solution of methanol and water.

10-14. (Canceled)

15. (Currently Amended): ~~The fuel cell system of claim 10,~~ A fuel cell system comprising:

a fuel tank configured to store a fuel at a pressure higher than atmospheric pressure;

a reformer configured to reform the fuel into a hydrogen rich gas;

a water tank configured to store water to be supplied to the reformer, being coupled to the fuel tank;

a vaporizer configured to vaporize the water in the water tank;  
a CO gas removal apparatus configured to remove CO gas in the hydrogen rich gas;  
and  
a cell unit configured to generate electricity by allowing the hydrogen rich gas to react  
with oxygen.

wherein the water tank comprising:

a first chamber coupled to an upper part of the fuel tank;  
a second chamber coupled to an upstream of the vaporizer; and  
a partition disposed between the first chamber and the second chamber.

16-19. (Canceled)

20. (Currently Amended): ~~The fuel cell system of claim 10, further comprising~~ A  
fuel cell system comprising:

a fuel tank configured to store a fuel at a pressure higher than atmospheric pressure;  
a reformer configured to reform the fuel into a hydrogen rich gas;  
a water tank configured to store water to be supplied to the reformer, being coupled to  
the fuel tank;

a vaporizer configured to vaporize the water in the water tank;  
a CO gas removal apparatus configured to remove CO gas in the hydrogen rich gas;  
a cell unit configured to generate electricity by allowing the hydrogen rich gas to react  
with oxygen; and

a pressurized tank connected to an upstream side of the fuel tank.

21. (Original): The fuel cell system of claim 20, wherein the fuel tank includes a methanol.

22. (Original): The fuel cell system of claim 20, wherein the fuel tank includes an ethanol.

23. (Currently Amended): ~~The fuel cell system of claim 11, further comprising:~~ A fuel cell system comprising:

a fuel tank configured to store a fuel at a pressure higher than atmospheric pressure;

a reformer configured to reform the fuel into a hydrogen rich gas;

a water tank configured to store water to be supplied to the reformer, being coupled to the fuel tank;

a vaporizer configured to vaporize the water in the water tank;

a CO gas removal apparatus configured to remove CO gas in the hydrogen rich gas;

a cell unit configured to generate electricity by allowing the hydrogen rich gas to react with oxygen, the cell unit including:

a fuel electrode being supplied with the hydrogen rich gas;

an air electrode being supplied with oxygen so as to react with hydrogen rich gas and to generate electricity; and

a polymer film interposed between the fuel electrode and the air electrode; and

a first oxygen supply unit configured to supply oxygen to the cell unit, the first oxygen supply unit including having:

a first chamber coupled between the CO gas removal apparatus and a fuel electrode of the cell unit;

a second chamber connected to an air electrode of the cell unit; and

a partition disposed between the first chamber and the second chamber.

24. (Original): The fuel cell system of claim 23, further comprising a heat pipe interposed between the first oxygen supply unit and the cell unit.

25. (Original): The fuel cell system of claim 23, further comprising a fluid cylinder located at an upstream side of the first chamber.

26. (Original): The fuel cell system of claim 25, wherein a surface area of a second partition disposed in the fluid cylinder is smaller than the partition disposed in the oxygen supply unit.

27. (Original): The fuel cell system of claim 23, wherein a first buffer tank is coupled to an upstream side of the first chamber and a second buffer tank is coupled to a downstream side of the second chamber.

28. (Original): The fuel cell system of claim 23, wherein a check valve is coupled to the second chamber.